

Stafford County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/14/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Stafford County economy.¹

These 17 sectors have a total direct output of approximately **\$256.0 million** and support **602 jobs** in Stafford County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Stafford County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	601.5	23.36%	\$47,442,333	24.20%	\$255,986,329	130.60%
Indirect Effect	298.5	11.59%	\$17,934,350	9.15%	\$29,556,376	15.08%
Induced Effect	41.7	1.62%	\$2,738,524	1.40%	\$5,221,841	2.66%
Total Effect	941.8	36.57%	\$68,115,207	34.75%	\$290,764,547	148.34%

As shown in the above table, agriculture, food, and food processing sectors support **942 jobs**, or **36.57%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$290.8 million**, roughly **148.34% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$68.1 million**, or **34.75% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **34.75% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **327 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Stafford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	327.3	\$66,913,303
Support activities for agriculture and forestry	181.1	\$10,600,503
Grain farming	123.8	\$74,469,873
All other crop farming	44.4	\$5,395,835
Other animal food manufacturing	33.0	\$42,339,467
Wholesale trade	21.6	\$3,969,421
Flour milling	20.7	\$27,688,677
Oilseed farming	20.2	\$33,118,546
Truck transportation	15.9	\$2,206,382
Monetary authorities and depository credit intermediation	14.4	\$2,765,226

The grain farming sector directly contributes approximately **\$74.5 million** to the Stafford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	123.8	\$74,469,873
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	327.3	\$66,913,303
Other animal food manufacturing	33.0	\$42,339,467
Oilseed farming	20.2	\$33,118,546
Flour milling	20.7	\$27,688,677
Support activities for agriculture and forestry	181.1	\$10,600,503
All other crop farming	44.4	\$5,395,835
Wholesale trade	21.6	\$3,969,421
Extraction of natural gas and crude petroleum	10.0	\$2,911,226
Monetary authorities and depository credit intermediation	14.4	\$2,765,226

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Stafford County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	20.2	\$33,118,546.08
Grain farming	123.8	\$74,469,872.76
Vegetable and melon farming	1.6	\$294,589.94
Fruit farming	0.2	\$19,203.92
Tree nut farming	0.0	\$10.87
Greenhouse, nursery, and floriculture production	3.1	\$369,556.52
Cotton farming	4.2	\$1,009,983.44
All other crop farming	44.4	\$5,395,835.01
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	327.3	\$66,913,302.66
Poultry and egg production	0.1	\$41,564.39
Animal production, except cattle and poultry and eggs	13.8	\$2,488,107.32
Commercial logging	1.5	\$72,161.48
Commercial hunting and trapping	3.1	\$62,461.57
Other animal food manufacturing	33.0	\$42,339,466.66
Flour milling	20.7	\$27,688,677.17
Bread and bakery product, except frozen, manufacturing	0.7	\$78,505.51
Farm machinery and equipment manufacturing	3.6	\$1,624,484.15

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Stafford County, the retail sector was omitted.